INTERNATIONAL SEARCH REPORT

PCT/US04/41171

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01J 49/42		
US CI . 250/202 282 288		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 250/292,282,288		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where	appropriate, of the relevant passages Relevant to claim No.	
Y US 4,920,264 (BECKER) 24 APRIL 1990 (24.04.	990), COLUMN 4 LINES 49-57, 1-34	
COLUMN 5 LINES 13-22, COLUMN 7 LINES 5 US 2003/0189171 A1 (LONDRY ET AL) 9 OCTO DOCUMENT	-68 BER 2003 (09.10.2003) SEE ENTIRE 1-34	
Further documents are listed in the continuation of Box C. See patent family annex. See patent family annex. Inter document published after the international filing date or priority		
Special categories of cited documents:	date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
-A" document defining the general state of the art which is not considered to be of particular relevance	-X" document of particular relevance: the claimed invention cannot be considered novel or camiot be considered to involve an inventive step	
"E" earlier application or patent published on or after the international filing date	when the document is taken alone	
-L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	-Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed	-& document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
26 September 2005 (26.09.2005)	27 OCT 2003 Authorized officer Rhonon for Beat	
Name and mailing address of the ISA/US	Authorized white for been	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	John R Lee	
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Alexandria, Virginia 22313-1430 Eacsimile No. (703) 305-3230		

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